the Cannon
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VOLUME XV ISSUE IV
AN OFFICIAL NEWSPAPER OF THE UNIVERSITY OF TORONTO ENGINEERING SOCIETY

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♀ & : Oxymoron or Opportunity?

by Binh Ta COMP 979

On Wednesday, November 12, 1997, the third seminar in the "Creating Your Future" series of seminars was held in SFI101. The seminar was entitled "Feminism and Engineering – Oxymoron or Opportunity?". Although the presentation focused on feminism and engineering, other topics relating to feminism in general were discussed. The keynote speaker at this seminar was Dr Monique Frize, P.Eng., O.C. To say that Dr. Frize is qualified to discuss such a topic is an understatement. In fact, Dr. Frize is currently the NSERC/Nortel Joint Chair for Women in Science and Engineering in Ontario.

One of the first things Dr. Frize discussed was the word "feminism" itself. She talked about what a feminist really is. It's unfortunate that the word feminist can conjure up negative images of someone who is ugly, a "bitch" and who hates all men. But has anybody actually looked up the definition of the word feminism in the dictionary? Feminism, as defined in the Oxford Dictionary of Current English, is the "advocacy of women's rights and equality". And a feminist is just a person who advocates and believes in feminism. There is nothing wrong with that, is there? Why then are people so afraid to talk about such a topic or even admit that they are a "feminist"? Why would such negative labels be attached to a meaningful movement, if not to sabotage and gag it? Dr. Frize made a point that females have to get over the notion that all females are victims of society's inequalities. She stressed that not everybody is a victim and that using such an excuse is unacceptable. Female engineers have to take matters into their own hands sometimes, so that if you are being treated unfairly, then do something about it. Females have to be strong in the battle for equality. It's one thing to complain about being treated unfairly, it's another thing to take the initiative to change it. Thus, Dr. Frize suggests that female engineers should be more assertive, so that males will take notice. But Dr. Frize does point out that you should choose your battles, because taking on the world will just leave your exhausted and thus leaving no time for yourself.

It doesn't take a rocket scientist to figure out that there are not many female engineering students here at Skule™. But why is that? Why is it that there isn't a great deal of females taking engineering? Is it because females have lower averages in math and science compared to their male counterparts? Actually, studies have shown the girls have higher averages in math than boys in grades 3, 6 and 8. Yet females make up only approximately 26% (up from 21% in the previous year) of all first year engineering undergraduate students. Dr. Frize offers the explanation of gender stereotyping. A survey was done in which girls were asked what kind of jobs they would do if they woke up one day as a boy. Unfortunately, engineering was given on the list of responses. This is unfortunate because engineering should not only be for one gender. The same question was posed to boys, and their responses to what kind of jobs they would be doing if they were a girl included being a secretary and nurse. These may not be the surprising results because the survey was done in 1982 (Colorado) and 1992 (New Jersey) with the same results. So what does this say about society? It suggests that stereotyping still exists and that girls and boys still have the wrong images of each gender. Dr. Frize attributes these stereotypes to a problem in upbringing which continues to nurture the gender inequality in society. Dr. Frize emphasizes that females should not limit themselves to traditionally feminine professions. Everybody should have the same opportunities and choices when it comes to pursuing a career. The most important thing is that you are doing something you truly want to do. Another disturbing trend was shown in a study done in Germany in which the number of female engineering students was recorded according to the degree (undergraduate, Master's and Ph.D). The study showed that there was a

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14 Not Forgotten: Eight Years After

by Monika Ulaganaj VP External CFES

On December 6, 1989, a terrible event occurred at École Polytechnique in Montréal, Québec. On this day, a man walked into a classroom, ordered all the men to leave, and opened fire on the women in the room. Fourteen lives were lost; twelve engineering students were not allowed to pursue their goals. The violence and senselessness of this act shocked and outraged everyone across Canada.

In the years since this tragedy, we have grown, in different ways for different people. Many do not recall that day and many of our current students were still in high school or junior high when it happened. Others find the anger and hurt not dulled and are still seeking answers, a remedy for the pain of this day.

The member schools of the CFES have expressed a strong desire for the National Executive to provide information about this terrible day. Information about different commemorations, in particular the white ribbon campaign, and a letter from Ecole Polytechnique may help schools commemorate December 6 in a personal way.

Many years ago, engineering students and professionals across the country joined together because they had similar goals and thought they could help each other. This is what friends do. So, on December 6, remember that we all lost a friend in the engineering profession to a terrible tragedy. They lost their lives for something they did not do and this situation should not happen again.

ÉCOLE POLYTECHNIQUE MONTRÉAL

It is true, as it was said in one of the mandates given by member schools, "that different schools, due to their different backgrounds, may face different situations when preparing the December 6 Memorial". Thus, we encourage member schools to commemorate this sad day in their own way. The white ribbon campaign is one simple, humble, and direct way of commemorating the event. We also encourage all schools to continue to initiate their own commemoration, be it a minute of silence, the burning of candles, or other activities they feel representative of their students.

On this day, we need to remember the many victims of this event, their families, classmates, friends, and finally, École Polytechnique. We also need to remember the violence associated with that day and to reflect on our actions. It is important to commemorate this event in a respectful way and to reflect on the violence against women and violence in this society.

The engineering community should unite in remembering the following: Genvieve Bergeron, Hélène Colgan, Nathalie Croteau, Barbara Daigneault, Anne-Marie Edward, Maud Haviernick, Barbara Marie Klueznick, Maryse Laganiere, Maryse Leclair, Anne-Marie Lemay, Sonia Pelletier, Michelle Richard, Annie St-Arneault, Annie Turcotte.

(Students here at Skule™ have been wearing white ribbons since November 24th as they reflected on how this issue has affected them. A small candle ceremony is being held today at noon outside Sandford Fleming, in memory of all women who have been the victims of such senseless acts of violence. Donations from UofT engineers will go to help Women's Habitat, a shelter for abused women in Etobicoke.—Michelle Curran)

the Cannon
THE OFFICIAL NEWSPAPER OF THE UNIVERSITY OF TORONTO ENGINEERING SOCIETY

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PLEASE NOTE
The Cannon is a medium through which undergraduate engineering students can express their opinions. The views expressed herein are those of the author and do not necessarily represent those of the editors or the Engineering Society unless so indicated.

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Editorials

Cannon Writer's Meeting
December 16th, 4 p.m., Eng Com
Happy Holidays!

A World of Invented Crises

by Julian Dunn COMP 0T0

Pick up any newspaper and one imagines that our world is hopelessly headed towards disaster. Grab a copy of the *Toronto Star*, for example, and you're liable to believe that Mel Lastman is going to tear down blocks of downtown residential homes to build skyscrapers. Read the *Varsity*, and it seems like the whole university is selling out to the bankers, and will soon be offering honourary degrees to Adolf Hitler, while at the same time raising tuition to levels that force students to turn to prostitution to pay their bills. But reality is much different indeed. After reading such "shocking" articles about the demise of our society, we quietly resume normality. Why do we, as newspaper readers, put up with these "invented crises"?

Despite all the protest from journalists to the contrary, violence, catastrophe and disaster – and dire warnings of the probability thereof — are what sell papers. As a naïve high school journalist, I used to believe in something called "objective reporting". Now I know that no such thing exists. Why? Because if reporters were to be objective, the articles would actually be so realistic that they would not be entertaining to read. Our everyday lives are not fraught with danger, disaster, social crises and revolutions. We would simply not be able to function in a society that is as the media describes our current one.

Take the postal strike, for instance. There has been little public sympathy for the postal workers or Canada Post, because most people nowadays have access to alternate forms of communication, and even those few who do not, are coping. The truth of the matter is that the mail disruption has not caused massive public outrage, as the newspapers would have had you believe in the first week of the strike. In fact, the lack of emotional public reaction has helped the strike: both Canada Post and the workers, having failed to obtain any public melodrama to use against the other, have meekly submitted to mediation.

What worry me most are the people that actually believe the world to exist as the newspapers report it. These are the people you see at protests and demonstrations, shouting the loudest, but with the blankest expression on their faces. They have no real clue about the issue they're protesting against, except perhaps that whatever it is, it's bad. Admittedly, it is easy to get sucked into the rhetoric often spewed by the media, and not do your research before speaking out on an issue, but such ignorance only leads to public demonstrations of your stupidity.

The most important thing for newspaper readers to remember, then, is never to trust anything written in the press. Continue to read the papers, of course – no doubt they are an entertaining update on current issues. But if you get excited or worked up about something you read in the newspaper, for heaven's sake, do some research on the issue before spewing rhetoric hither and yon on it. There are far too many people who essentially talk out of their rear ends about complex issues, because the only research they've done is to read the biased newspapers. It is exactly that kind of empty-headed rhetoric and protest that gets printed in the press, again and again.

My Pet Cannon, Your Pet Cannon

by Gina Seto ENG SCI 9T9

Many times over the past semester, Julian and I have been faced with the task of cutting articles (or parts thereof) out of the Cannon. Mostly, it is to ensure that every article fit according to the strict martial sizing laws of the Cannon layout staff. More interestingly, it is often because our writers want to write a sentence a certain way and use the wrong words. We editors like to call these, "typos". Sometimes, these typos are huge.. the size of the entire article! This of course means that there is just no way we can have it in the Cannon, since we'd have to do all the work and rewrite the darn thing.

This may come as a surprise to you, but the Cannon is not the controversial, reactionary newspaper that you thought it was. Haha, very funny, I know, since people have not been known to pick up the Cannon and gasp in shock, rant and rave in fury, or weep bitter tears of rage and humiliation. No, no, the Cannon is a remarkably friendly newspaper that won't ever ever bite your hand (well... at least it won't break skin). Maybe we should try to incorporate some hairier topics in the Cannon.

<Here's my cue to sneak a peek at Julian's editorial.. aha, perfect! He's talking about objective reporting versus media sensationalism! Well here's an example of sneaky underhanded spy *reporting. See, your Cannon provides you with all sorts!>*

Not satisfied? Well, too bad, I guess. You'll have to settle for a newspaper that cares about what is happening within the UofT Engineering community, encourages the students to contribute their views and opinions as much as possible with the condition that anything published will not be destructive, harassing, or defaming. Maybe there are more conditions, maybe not. That is up to the copy editors, the co-editors, the Engineering Communications chair, the VP Internal, and the President. Maybe it's even up to the Dean! As long as you remember that what you are reading is subject to the censoring powers of all of the above, then you can safely wash this stuff down with your morning coffee.

So here we go (maybe you better put your bib on) with the last Cannon issue of 1997! We have for you some news the PEO, dinner dances, competitions and our very first Cannon crossword puzzle! But if anything, please take the time to remember the 14 Not Forgotten.

OPINION

Your Eng Soc Is Still In A Meeting

by Karen Virk ELEC 9T9

On an unseasonably warm Tuesday night, the University of Toronto Engineering Society held their monthly Full Council Meeting. Karen, our friendly VP External, had had a full day and had rushed to make the meeting on time. In her opinion it was a packed but extremely useful meeting with excited discussion and high enthusiasm.

Half way through, she happened to glance at the watch of her neighbor and to her dismay, she realized that she really had to go in order so she would not fail her Computer Organization course. After saying her goodbyes she made her way through the esteemed halls of Sandford Fleming into the frenzied though holy computer lab.

After exhaustive hours of hard work, she made her way back into the Engineering Society to get her belongings and take her leave from our beloved Skule™. She happened to run into a friend, so she asked how the rest of the meeting had gone. Her friend gave a small smile and responded by remarking that it was still going.

Excuse me?

Someone called quorum so the meeting had to be postponed. For our new readers, that means that there were not enough people to continue the meeting and nothing after that point could be considered valid.

She stood in shock and said, "Really?"

"Yup."

How amusing although terribly inconvenient. And from one of the last people she would have expected. When talking to this person, after the amused disbelief she asked him why.

"I think its ridiculous that we can't get enough people out to vote." She stopped for a second and thought about it. It is...

Which brings us to this point. After thinking about it for a while, the "ridiculousness" of the situation really sinks in. All I can think is how horrible this is and what can I do as an officer to change this. Maybe we need to reach out to the class reps more. Maybe we have to publicize these meetings more. Maybe we need to.. Maybe..

But I don't understand. Every class rep was told when the meetings were and most of them were called to come. What's the problem? What are we doing wrong? Is it really the Engineering Society? In all honesty, it is hard to say that the Engineering Society does no work or that it is irresponsible. So what is it? Why can we not even get the representatives to come out for its own meeting?

After much agonizing, all I can come up with is that the reps obviously don't feel that it is useful for them to come. They do not feel that they need to be there and the students, the students, don't make them accountable. The students don't care. So why should we care? If the Society really exists for the students, perhaps it is best to represent them as best as we can. Perhaps it is a good idea to call quorum at every meeting to see how many of the students care. After all, if we can not even get 29 voting members together to represent the almost three thousand undergraduate engineers at the University of Toronto, why should we even bother?

I'm still looking for the answer.

Skule™ News

Stop Eating (In) The Labs!

by Andrew Pavacic ENGSCI ELEC 97+PEY

Okay all you slobbering computer-nerd honchos listen up. Every so often, classmates, lab partners, and Joes on the street ask me with awe "Wow, you work for ECF? How can I get a job like that?" completely oblivious to the mindless, thankless servitude to which we poor grunts have dedicated ourselves. We are the silent heroes who restock your printers with paper and toner, reprogram modems that have gone bonkers, and fight furiously to sustain the flow of happy new equipment sent off to its doom under thousands of your hard-working fingers.

The best we can all do to make life easier is to show courtesy to the facility through respect for equipment. This includes not bringing food or drink into the lab. I hate seeing it because I know it means it's my job to go up to someone and tell them to knock it off. I really hate doing that too, because it invariably means I get a "who the hell are you" kind of look (no, grunts don't wear uniforms, but who cares? Anyone who tries to keep you out of trouble deserves your thanks). And then if I ever have to report someone it's wasted time and work for everyone, but if I don't, well, I get to clean up the keyboard when you've spilled your cola on it.

Of course, nobody expects to spill, and everybody thinks they're being "careful" with their drinks, and then they look around sheepishly when they manage to Niagara Falls all over the place after swinging their mouse around trying to get the darned pointer to move (of course, the reason the mouse isn't working is because there are little bits of bread crumb jamming the rollers, but that's another story...). Then they swear helpfully, log out and quietly leave the room.

Stop The Madness!

New equipment is here. Both SF labs have new printers with wooden security casing to prevent people from pressing the "Online" button repeatedly, as if it were an elevator button, and cause other people to wonder what's wrong, start opening things and moving papers around until the printer starts signaling "paper jam", and in fact, there are over forty brand new xterminals now installed in SF1012 (existing machines are being used to replace aging equipment in EA109 (yes, we know about that hellhole)).

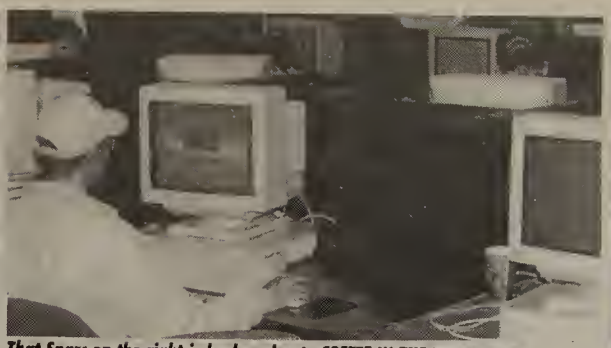
And yes, security is an issue. While xterminals aren't plagued by the same daily theft rates PCs are generally victim to, the legendary practical jokes may never end. Two years ago in September, while users were desperately trying to work around a mysterious electronic plague afflicting ECF modems (which we've since learned to deal with without entirely curing, yet nearly managed to get ECF remote access withdrawn altogether), it became clear that balls were disappearing from our computer mice at an alarming rate. This had been going on for some time, and our response had simply been to replace them where necessary, and glue the covers down. The coup d'état for the mysterious poachers was one night when ALL the mice in the (then fully functional) EA109 lab had their balls removed, and SUN maintenance invoices taped to all the monitors labeled "no balls -BFC", an obvious false identity since the BFC doesn't even exist. Though this was followed by a wildly popular and sublimely written Toike article entitled, "Dean Says Mice Have No Balls," the balls in question were never returned, and their whereabouts are still unknown.

Why the carnage continued, though, is beyond me. Even when we replaced the mice and glued the covers down, poachers came after them with screwdrivers. Sometimes the castrated mice would even be reassembled (with empty ball sockets, of course). When we started filling screw-holes with epoxy, the thieves started removing terminators and T-connectors from the ethernet lines, bringing down four xterminals at a time.

Remember the skinned tongueless buffalo left to rot in the fields in Dances With Wolves. Save the mouse! There are now over two hundred carcasses of these gonadless little guys airing out their impotence in a cardboard box in the machine room, because nobody sells mouseballs!

Though this particular lunacy seems to be less of a problem nowadays, eating and drinking in the labs is as bad as ever. On the brink of a major new equipment turnover, it's time to change attitudes.

This time around, let's make the machines last.



That Sparc on the right is broken due to COFFEE IN THE KEYBOARD!!

Women in Engineering - On the Road To Improvement

continued from page 1

dramatic decline in the number of female engineers from the undergraduate level to the postgraduate level. The downward trend continued as fewer females pursued a professorship.

It is important to note that not every engineering discipline is male-dominated. In fact, the most popular engineering discipline for females is environmental and chemical. In 1995, 47% of all environmental engineers were female, yet females only made up 13% and 9% of all electrical and computer engineers, respectively. Dr. Frize wonders why. Why do so few women go into ECE? Aren't electrical and computer engineers in high demand? Why aren't there women in these "hot" fields? In fact, there is a shortage of electrical and computer engineers, leading to many unfilled jobs. Yet females have not flocked to the ECE discipline. Dr. Frize offers the explanation that certain careers are associated with certain gender symbols. These symbols have their roots in the problem of upbringing. Females tend to associate computers, construction, and sports as masculine objects. Thus, they tend to shy away from such disciplines. This brings us back to the notion of gender roles and appropriateness of certain fields.

After graduating with an engineering degree, female graduates face another hurdle when it comes to finding a career. But why is that? Why is it that few women are hired into engineering firms? According to Dr. Frize, an "old guard" still exists. The managers who are doing the hiring have a sixties mindset. When the IEEE did a survey of male managers to ask them why they don't hire that many females, the majority of them responded with a fear that projects are put into jeopardy when females take a leave of absence to start a family. To simply put it, one manager was quoted as saying, "why bet on a horse that won't finish the race?" But Dr. Frize counters by asking, "don't projects get put into jeopardy when male engineers have heart attacks or move to a different company?" Although it may have been true that females take a long leave of absence from their career to start a family, new statistics have shown that this length of time has decreased with time. In fact, their average hours per week throughout a career is basically identical to that of male engineers. With male engineers preferring to work less in the latter years of their career by taking early retirement. Since female and male engineers put in the same amount of time into their careers, why are male managers still reluctant to hire female engineers? The notion that female engineers taking significant time off and thus hurting a company is a sixties way of thinking. Unfortunately, many of the people who run companies were hired back then and thus still think with this mindset. Thus, their perception of the world is flawed and static. They need to stop living in the past and to start realizing that the world has changed. And even if a female engineer does decide to take some time off, it doesn't mean that she has to stop working. Thanks to technology, staying in touch with your company is as easier as ever. Anybody can telecommute to work, communicate via email, the internet, or over a LAN. There are just no more excuses to not hire someone based on their gender.

That is why feminism is such an important issue to discuss. As the future employees, managers, CEOs and entrepreneurs of the world, we all must do our part to change and eliminate these sexist attitudes. But Dr. Frize warns that we should not try to change the world immediately, because it's just not possible. She stresses evolution, not revolution. Change happens with time, especially when dealing with archaic and old "dinosaur" companies out there. And males just can't think that the fight for equality doesn't involve them. Because if a company treats their female engineers poorly, what's the likelihood that a male engineer will be treated well?

Dr. Frize notes that to be successful in engineering, a female has to emulate certain male attributes. She thinks that females lack important qualities that males have which make them successful. These attributes include self-confidence, independence, and focus. But does this not go against the idea of being yourself? True, but keep in mind that these are not necessarily bad qualities to have. These are some qualities which employers look for when hiring prospective graduates. Comprehensive sociology studies have shown that the females who were the most successful in their respective field had these same qualities. In fact, the studies conclude that to be successful in engineering, one has to talk like a man and act like a man. But does this logically lead to the conclusion that engineering equals maleness? Is engineering all about being a man? Didn't Dr. Frize suggest that you should be yourself and do whatever you wanted to?

To conclude her lecture, Dr. Frize left us with the advice of being yourself. We should be whoever we are going to be. When we do have our own career, we should respect the people who we work with and fight for equality when it doesn't exist. But one should also be diplomatic when trying to resolve issues. In the end, the issue of feminism and equality is not a question of male or female. Rather, it is a question of having the right attitudes and values to respect others, regardless of gender. It's a matter of respect.

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Skule™ News

Cops Crash Eng. Sci. D-D

by Karen Hobbs ENG SCI 9T8+P

This year's annual Engineering Science dinner dance was a great time for all! On November 8th, 150-some Eng Scis gathered at the Estonian House with the intent of putting midterms behind them for an evening of fun and festivity. Highlights of the evening included cool tunes by Jazzriel who brought an elcctric violin, a scrumptious buffet dinner, and one awesome toast to Eng Sci by our own Chris Langley.

During dessert, awards were presented for a number of outstanding efforts. Howard Feldman was honoured with a prize for the fourth year student with the highest cumulative average. Four "Spirit of Engineering Science" awards were given to some students who have displayed great enthusiasm and who have participated significantly in the engineering community. Kristin Hofstee, Parham Aarabi, Christopher Langley and Neil Brewster were chosen to receive these awards. Three second year groups were awarded prizes for their (relative) success with the second year design projects.

The dance floor was busy all night as everyone was having themselves a ball. In fact, in an uncharacteristic display of rowdiness, the Eng Scis got a little carried away and the neighbours were complaining. Eventually we were paid a visit by the cops and the music was turned down (again!).

An Eng Sci in limbo.

Eng Scis are all just a big, happy family.

Eng Sci Jail Club News

by Kevin Harris ENG SCI 9T8

With exams coming up, and midterms just returned, the EngSci club is busy studying away. But we'll be getting right back into the swing of things on January 7th with our first smoker of the second term. This is the perfect time to come to buy and sell books for the next term, or just to sit back and relax.

Our paintball trip was postponed until next term due to some scheduling conflicts, so if you missed it the first time, you still have your chance to shoot down some of EngSci's more adventurous professors.

For next term, plans for ski trips (both X-country and downhill) for reading week are ongoing. Also, we are starting to plan our annual Engineering Science Basketball tournament as this will give the young ones a chance to avenge their horrible losses to the 9T8's (the volleyball tournament champions).

Finally for next term, we are planning to have at least one corporate smoker (where a company comes to our common room, buys us pizza, while mingling and collecting our resumes). Our last one was successful for both us and Altera.

Mighty Mighty Chem Club

by Wendyline Wong CHEM 9T8

Pre-exam greetings!!!

CHEM Club's end of Plant Design/End of Thermo labs Smoker was on Wednesday, November 26. They were interested in knowing more about undergraduate concerns and what our expectations of Skule™ are. It was very successful overall.

CHEM Club was proud to present our annual semi-formal Dinner Dance at The Primrose Hotel on Saturday, November 29. The food was great! The music was excellent and everyone boogied all night long. Many thanx to all the students and profs who attended!!

Study hard undergrads and have a nice holiday!!!

OEC '98 at Waterloo

by Mark Ebden ENG SCI 0T0

The annual Ontario Engineering Competition is approaching. In one or more of six categories, you can win $2500 for first place, $2000 for second place, and $1500 for third place.

Interested? There's more. All you have to do is register and find a way to Waterloo on Friday February 27—the Dean is paying the $170 registration fee on a first-come, first-served basis. E-mail ebdenm@ecf.utoronto.ca to find out the registration details.

But the fantabulous event just BEGINS on Friday! You compete on Saturday February 28 and leave on Sunday March 1. There are lots of things to do and people to meet—including top representatives from industry. You'll interact with executives from Bell, Ontario Hydro, Nortel, and Com Dev, just to name a few.

E-mail TODAY for details! Not only do you get FREE accommodation in a beautiful hotel, with FREE meals and amenities, but you get a FREE chance to win thousands of dollars.

"Oh, I won't be picked to go," you say. Last year UofT was only represented in four of the six categories—there's room for you! Just apply soon to guarantee your spot.

"Oh, I'm just a first year, I can't hope to win," you say. The Team Design category is restricted to frosh, so what are you waiting for?

In the categories UofT did enter last year, we did quite well. In fact, two groups went on to compete in the Canadian Engineering Competition and both won second place in their categories!

Incidentally, the six categories are shown in a side panel. Some require preparation, but Team Design and Parliamentary Debate don't. Here is a brief description of the categories.

Team Design: Groups of four frosh are given three hours to design and construct a solution to a simple problem.

Parliamentary Debate: Pairs debate impromptu topics.

Entrepreneurial Design: One to four candidates pretend to design and market a new product.

Explanatory Communications: One or two students explore a cool topic of their choice and present their findings.

Editorial Communications: One or two students give a seminar on a personal viewpoint of science.

Corporate Design: One to four candidates solve a REAL problem facing a REAL industry today.

There's something for everyone! Sign up today!

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e-mail: diosady@chem-eng.utoronto.ca

Signing Up for the OEC

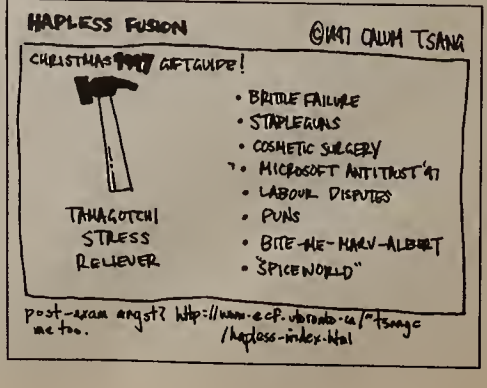
by Professor Levente Diosady, Faculty OEC Coordinator

The Ontario Engineering Design Competition will be held at the University of Waterloo Friday, February 27 through Sunday, March 1, 1998. The competition provides an exciting opportunity to meet engineering students from other schools of engineering, and to interact with industrial representatives. It is also a great opportunity to demonstrate the excellence of our students. Top entries in each category win valuable prizes, and the chance to compete in the Canadian Engineering Competition, to be held a week later, in Ottawa.

More information is available directly from the OEC organizing committee by
phone: 519-885-1211 x5322;
fax: 519-725-4872; or
e-mail: *OEC98@shim.uwaterloo.ca.*

Please submit the completed entry forms to Professor Diosady of Chemical Engineering, c/o the Chemical Engineering Undergraduate Office, room 216 in the Wallberg building by January 9. The contestants whose entry fees will be paid by the Faculty will be selected in consultation with the Dean by January 15.

For more information contact Professor Diosady, faculty OEC coordinator, at 978-4137, fax 978-8605, or by e-mail at *diosady@chem-eng.toronto.edu.*



Skule at 125: The Celebration Begins

1998 is the 125th anniversary of the founding of the School of Practical Science. Together with the Engineering Society, alumni of the faculty, and current faculty staff and students, The Cannon will be featuring one article per issue, reminiscing about the serious and not-so-serious of Skule™. This month we recall some of the famous pranks engineers pulled in the "good old days".

by David Lie ENGSCI 9T8

The world-famous LGMB, a longstanding Skule™ tradition.

The Skule™ of Practical Science here at UofT has always had a long-standing sense of tradition and spirit. In fact, many of the professors you see everyday and engineers running today's companies were graduates from our illustrious institution. Coupled with the engineer's sense of duty and responsibility is an incorrigible desire for the wit and the humor. Sometimes this feeling becomes so strong that even those not affiliated with the non-existent Men and Women In Black feel the need to occasionally make some things mysteriously disappear while causing others to appear. The activities of the past have included the rebuilding of a car in the President's Office, decorating the dome of the old Stewart Observatory as a pair of Mickey Mouse ears, and the planting of the a tree on the roof of the forestry building.

Long before the grad prank became a annual tradition, engineers were already causing mischief. After some digging around I found some interesting snippets. In 1923, an article told of a "great school scrap" between the two professional faculties SPS and Meds (allies at the time) against the mindless Artsie horde. At the time, engineers would have to venture into the Arts building to attend Professor Loudon's physics lectures. Arts lectures then, as they are now, were crowded and often students had to go without seats. Well one day, a cry for help came from the Meds, and the loyal engineers showed up in force. What followed was a brawl that eventually ended up with some hapless Metropolitan Policemen, who had been sent to break up the fight, being trapped by the unyielding force of students. The situation was finally diffused by the appearance of Sir Daniel Wilson, President of the University of the time, who appealed to the better sense of the students. Eventually the students returned to their lectures and the police slid out the backdoor and were not heard from for quite some time.

Another popular activity, described in a Skule™ Dinner program of 1945, describes the amusement with "Bob-tailed" cars. Even before the advent of such wonderful things such as streetcars, engineers had their fun with public transit. The process started with several intrepid engineers boarding the car at the rear and setting the brakes so that the horse would not be able to move. When the conductor came to release the brakes, the boys would sneak up front, unharness the horse and drive it off. When the conductor went to pursue the horse, he would return to find the car mysteriously lifted off its tracks.

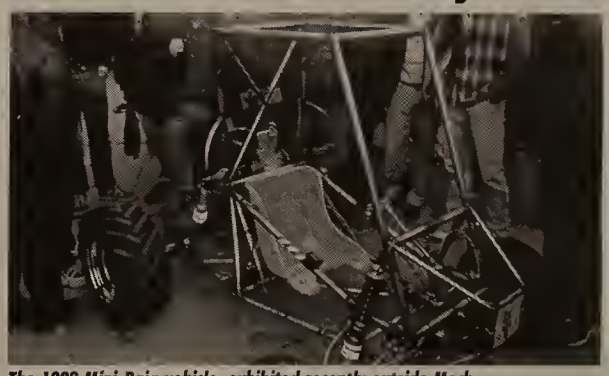
The idea of a grad prank has always been to construct something—to leave something for later generations to admire. Sadly, many of the grad pranks of the past have been removed indiscriminately by the various rodents inhabiting the campus and thus pass into history, existing only in the memories of those who were there. It has now been 4 years since the last 9T4 received an iron ring, and only PEYers would remember what pranks happened that year. Thus it is only fitting to end this article with a brief reminder of just what did happen that year.

From the CHEM department, the Wallberg Building received the gracious donation of a 700 pound concrete methane molecule while the mechs left a car in front of their building with a tree growing through it. PC's were left by the comps in front of Sandford Fleming instead of lion statues. And finally, last but not least, the Eng Scis left a tribute to the infamous Professor D.G. Ivey, physics lecturer for generations of Engineers. A black monolith, constructed of painted wood fixed to a concrete core, appeared in front of the Sanford Fleming building. It stood 7 feet tall, modeled after the one in 2001: A Space Odyssey; a Ivey text book and a burning problem set layed in front in homage.

And so on that note, we look forward to this year's pranks, may they carry on an excellent tradition.

Building the 1998 SAE Mini-Baja

by Jeffrey Liaw MECH 9T8



The 1998 Mini-Baja vehicle, exhibited recently outside Mech.

The Mini-Baja is a competition sponsored by the Society of Automotive Engineers (SAE) and comprising many engineering schools in North America. The objective of the competition is to design and build an all-terrain vehicle that is manœuverable on both land and water. The vehicle will be also judged on its design and performance through a four-hour endurance race.

The 1998 Mini-Baja team consists of six fourth year students. The goal of the team is to design, build, and compete in the 1998 Mini-Baja Competition. Our challenge is not only to meet the competition requirements, but also to excel in vehicle performance, such as acceleration, top speed, braking, chain pulling, water and land manœuverability, suspension, and traction.

The team was formed back in February 1997 and has been working on the Mini-Baja student project throughout the summer and until now producing the new vehicle. So far, a great deal of reputable organizations have been invited to be our sponsors. The team would like to thank all the sponsors for their generous contributions which have given tremendous help to the project.

The 1998 Mini-Baja vehicle is almost built. The next stage for the team is mainly on constructing a body shell and floatation system. These will be entirely built by students; however, there are still the material and tooling costs needed. With a restrictive budget, more support is required to finish this project. We are very close to completion. With your help, we will be able to make the UofT and the 1998 Mini-Baja sponsors proud when we take the winning position next year!

For more information or comments please contact Jeffrey Liaw by e-mail at *liaw@ecf.utoronto.ca*

Dean's Circle Reception

by Pierina Filippone Scholarships and Awards Officer, Faculty Office

The Faculty of Applied Science and Engineering held the Dean's Circle Reception on October 22, 1997 to honour all students in the Faculty who received an undergraduate scholarship. Approximately 125 students attended.

Each year, the Dean's Circle highlights a former Dean of the Faculty. This year, the Faculty honoured William Hodgson Ellis, the second Dean of the Faculty. William Hodgson Ellis was Dean from 1914-1919. Dean Michael Charles briefly outlined Dr. Ellis's achivements.

Congratulations to all our scholarship recipients!

A New Award

The L. E. (Ted) Jones Award of Distinction

This Award was established in 1997 by the University of Toronto Engineering Alumni Association to acknowledge the many and ongoing contributions to the University community and to endorse Jones' appreciation of the arts, particularly music. The winner is a Fourth Year student selected for academic excellence and significant musical accomplishment during the University years. The first recipient was Isabel Bayrakdarian, who graduated in Engineering Science (Biomedical Option) in 1997. On a quite unexpected invitation to the prestigious New York Juillard School of Music, she was immediately granted an appreciable scholarship, and is now under contract to sing operatic roles in New York.

Nominations for the 1998 Award should be sent to the Alumni Office (GB173) by Feb 27, 98

Chinese Engineering Students' Association
CESA
University of Toronto
Semi-Formal
December 21

Special Report

To most engineering students, the Professional Engineers of Ontario (PEO) seems to be an organization shrouded in mystery. Aside from allowing you to add the "P.Eng" designation after your name, they seem to serve little other purpose. Here, we begin with a factual article on just what the PEO does, and then explore delegates' impressions of the recent PEO conference. Their reports may surprise you.

Fancy (Being) An Engineer?

by Becky Curran CHEM 0T0

Want to be an engineer? There is a little more to it than surviving four(+) years in school and receiving your iron ring. You are not really an engineer until you receive your P.Eng, which licenses you as a professional engineer.

So how do you get your P.Eng? PEO (Professional Engineers of Ontario) have set up a list of requirements which must be met by all applicants in order for them to receive their licence.

To receive your P.Eng, you must

1. be 18 years of age, or older
2. be a Canadian citizen or permanent resident in Canada
3. be of good character
4. meet educational standards
5. pass an exam on engineering law and ethics, called the Professional Practice Exam
6. meet the engineering experience requirements

This of course brings us to the question: what do these standards mean? Well, hopefully, you already know the answers for numbers 1 and 2. I can't help you with number 3, but the following should help clear up what is meant by numbers 4 through 6.

Educational Standards

If you receive your undergraduate degree in engineering from UofT or any other qualified Canadian school, you are fine for this point.

Professional Practice Exam

This exam is a three-hour, closed-book exam on ethics, professional practice, and engineering law and liability. If you have been licensed anywhere outside of Canada for at least 5 years, you can be exempt from this exam. The exam must be completed within 2 years of eligibility for your P.Eng.

Experience Requirements

Currently, to be eligible for your P.Eng, you must have 3 years of engineering experience with a minimum of one year in Canada. On July 1, 1998, this number is changing to four years. You can get credit for 12 months of experience if you have engineering experience outside of Canada or a postgraduate degree in engineering.

PEO suggests that students apply to be an Engineer-In-Training upon graduation. The benefits of this membership are the Canadian job listings as well as advice from PEO on what kind of experience to look for to fulfill the experience requirement.

So what kind of experience should you look for? Jobs using the application of engineering theory or any practical experience are good choices. Anything involving the management of engineering works, or that employ your communication skills are also quality aspects.

Your license is more than some extra letters after your name. Your P.Eng is vital to the development of your career. Remember: the ring does not make you an engineer; the letters do.

For more information on PEO, visit their web page at *www.peo.on.ca.*

The PEO Conference: Delegates' Impressions

Virk's View

by Karen Virk ELEC 9T9 VP External

In early October, I had the chance to attend the PEO/UES Conference in Guelph. Before I went to this conference, I was very excited about learning more about the PEO and finding out what it was that this great organization actually does. As an engineer, I have not been fully exposed to the PEO and I was not exactly sure what getting my P.Eng. meant. I thought this would be a great opportunity to learn more about the professional aspect of our esteemed profession. Unfortunately, I do not believe this conference satisfied these goals.

There were many guest speakers an in my opinion, most of them focused on the responsibility of engineers and not on the theme of *Promoting the Profession*. There was one presentation on National Engineering Week that was more aimed at what activities different schools should focus on. I personally found most of these talks very interesting but I do not feel that they coincided with the PEO focus of the conference. There was, however, a talk by Christine Bell, the president of the PEO, and there was a presentation about the PEO structure on the second day.

One of the main issues that ESSCO (Engineering Societies Student Councils of Ontario) is looking at is a PEO student membership. This idea had been bounced around for quite a while and this conference was the perfect place to address it. It was first brought up in the question period with Christine Bell. I for one was not impressed with the way she handled the questions. She basically said that the PEO is struggling and the student membership was on the agenda for next year. I received the distinct impression that this was not a major concern for the PEO.

Ms. Bell emphasized the regulatory nature of the PEO and when asked why someone would want to be a Professional Engineer, she responded with the question, "why wouldn't they want to be?" There were not many direct answers given and many of the student delegates left the talk unsatisfied.

The presentation about PEO structure was given by Norm Williams and Johnny Zuccon. The main relevant points I got from this presentation were that the PEO is going to start actively enforcing the fact that the term "engineer" can only be used by professional engineers. For us students, that means we cannot use the term "engineer" in our resumes or our job title. The other important fact I learned is that up to 12 months of previous engineering experience can count towards the engineering experience requirements for a P.Eng. This means that summer jobs and PEY can count towards our experience requirements.

Although they did a good job presenting, I was not impressed with the lack of focus I saw in the PEO. It seems that they have a lot of work to do and are way behind in terms of organization and vision. Despite being in their mandate, promoting the profession seems to be very low on the list of priorities. This conference was an ideal opportunity for the PEO to promote themselves to us, the future Professional Engineers of Ontario, and every one of the University of Toronto delegates left disappointed.

I find it very frightening that the direction the engineering profession is taking is being governed by an organization that seems so behind the times. Our profession is a rapidly changing one and we need a dynamic organization to keep up with it. As VP External, I found this conference very useful in helping me with my job but as a student, I was not at all impressed with the PEO.

Patraualia's Points

by Mukarram Patraualia ELEC 9T8

The PEO Conference was a forum where students and PEO members discussed and gained a better understanding of who and what the PEO is and does. This includes the changing role of the PEO, advantages of joining the PEO, possible directions that the PEO is pursuing, and methods of increasing awareness and membership in the PEO and of the engineering profession as a whole.

As a member of the UofT delegation, I was able to partake in the various presentations, workshops and activities. On the whole, the organization of the conference, run primarily by students, was done quite well. However, I had expected the PEO to assume a leadership role in scheduling and arranging the conference. To my disappointment, this was not the case. In fact, the PEO seemed to present an uncaring, unsympathetic ear to the voice of the students. They were too busy legislating the profession and seemed to have no time or focus on promoting engineering. If this is the case, it seems logical to me to change the mandate and role of the PEO to correspond to a legal body whose primary goal is to enforce the Professional Engineers of Ontario Act.

Moreover, the PEO representatives wasted more time with political posturing than they did answering the students' questions, namely the important topic of Student Membership. I distinctly received the impression that, to the PEO, student membership was not an important or worthwhile issue. Although they pay a fair share of "lip service" to it, they have done little to encourage or provide advice on how such a plan could be structured.

In my eyes, the entire atmosphere of the conference left a negative image of the PEO. In truth, I had a better perception of the PEO before I attended the conference.

Ekstein's Exposé

by Steve Ekstein MECH 9T8+P

On October 2nd, I attended the 1997 Professional Engineers of Ontario/ University Engineering Students (PEO/ UES) Conference in Guelph, Ontario. With me were fellow UofT Engineering students Karen Virk, Mukarram Patrawala, and Adriana Ieraci. (The delegate reports of Karen and Mukarram are right beside mine.)

As none of the four of us had attended the PEO conference in the past, we were not sure what to expect. We knew that there would be student representatives from most of the other Engineering schools throughout Ontario, but we were unsure about the role of the PEO in the conference, and what they were hoping to get out of the conference. We did know, however, that the theme of the conference was "Promoting the Profession", something that many found was not done well during the conference.

The conference, to me, was a disappointment. I expected that the weekend would provide a forum for the PEO and the university delegates to speak to each other openly. However, there were only two PEO representatives, the co-chairs of the University Liaison committee at the PEO, that were available to talk all weekend. Although they were available, they did not seem to have the power to do anything to cater to any complaints, nor did they seem to care.

I got the impression over the weekend that the PEO was sponsoring this conference for show. I thought that the PEO would open their arms to us, seeing as we, Ontario's Engineering students, are the future of the organization.

Feel free to ask Karen Virk to view any of the delegates full reports. She can be found in the Engineering Society or reached *vpxternal@skule.ca* by email.

Let Them Be F!rosh...

by Jean Cruz ENG SCI 0T0

As hundreds of envelpoes with inviting 11"x14" posters and registration forms were sent out to schools in the GTA, nervous organizers bit their nails and wondered, "Will they come?"

As platters and platters of mmmmuffins and donuts and other goodies were being baked, nervous organizers wondered, "Will they come?"

As OXEY's boxed a ridiculously large amount of delicious pizza, nervous organizers wondered, "Will they come?"

Then it snowed.

As volunteers sat, with their highlighters poised over a thick registration list, nervous organizers wondered, "Will they come?"

"Are you here for F!rosh-for-a-day?"
"Yup. Where do I register?"

Triumph! Jubilation! They came! They came! Over 400 high school students participated in this year's F!rosh-for-a-day. About 75 braved the snow storm on the 14th of November and the rest came on the 21st. With ABBA playing in the background, they were welcomed into the lobby of the Galbraith Building by cheerful engineering students (yes! cheerful at 8:00 am!) with red nametags. In groups, they were brought to where the action was to begin.

Greeted by a riotous "lecture" by Prof. Dmitrevsky and interrupted by the LGMB, the participants settled into their seats, ready for a little peek at our culture, here at the Faculty of Engineering. Prof. Yu-Ling Cheng gave an eye opening talk on what Engineering is and what Engineers do, followed by a talk by Julie Routeledge, who spoke on student life here at Skule™.

Divided into smaller groups and led by an engineering student, the participants then found themselves running all around our faculty, from building to building, doing a little something organized by all our wonderful programs. They even wore hard hats!

After all that walking, the students were glad to sit down in the Wetmore Dining Hall, to enjoy OXEYs pizza and pop. First Year Chair Prof. Will Cluett, High School Liaison's Deirdre Stanton, Rono Sinha, Ryan Morris and Sally Atalla were on hand to answer everyone's questions about admissions, student life and Engineering in general. Volunteers stayed even after the closing remarks to show high school students around to places they still hadn't seen, and to answer everyone's questions. Everyone went home carrying little laminated periodic tables and trigonometry things to show off to their friends back home.

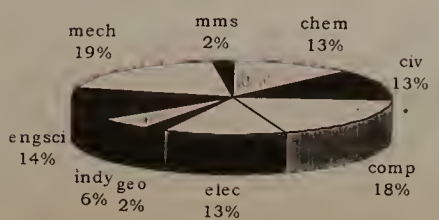
Content and sitting amongst columns and columns of pizza boxes (many still filled with pizza!), organizers smiled. Thanks to everyone that helped!

Skulebook Sales Results

Note: All F!rosh get a Skulebook. The price was included in the cost of the F!rosh kit.

Breakdown by Year

Breakdown by Discipline



Skule™ News

Students and Industry Reps at IEEE Career Growth Dinner

by Binh Ha ELEC 9T8

An evening of jazz and fabulous food topped off by a great group of industry guests and bright-eyed engineering students—this describes the first IEEE Career Growth Dinner SPAC. The focus of the evening was on career growth in engineering for young students who face graduation in the next few years.

We were pleased at the tremendous response from local companies such as Bell Mobility, Nortel, Prodomax, Netron, and GE Multilin just to name a few. The companies were represented by various people from Human Resources and Recruiting Coordinators to engineers who graduated from our very own faculty. The evening began with Eugene Roman, our guest speaker from Nortel, who spoke of engineering, business, and the future direction of technology. After the closing of the evening, Eugene captivated the audience when he spoke frankly about what makes a good engineer: "a desire to learn and never stop thinking...Expand your mind, seek new possibilities and never stop feeding your mind." He was very friendly and his words were most wise.

The Dean and His Cronies gatecrash the IEEE dinner.

MC's Ramon Chang and Binh Ha thank the visiting speakers.

Our second speaker was Javan Erfanian, Manager Emerging Technology Planning, Bell Mobility and Chair, IEEE Communications Society Toronto Chapter. He spoke of the Telecommunications Environment: Current Status, Future Direction, and Industry Players. His talk was very relaxed and well-received by our audience of one hundred students. Javan who also teaches continuing education courses at the UofT has expressed his interest in students and he is willing to speak with any students that may be seeking career advice.

And finally our last speaker was Celia Desmond, Project Manager at Stentor Resource Centre Inc. She spoke of the soft skills that are essential to a successful career an engineering. Celia, who is a long-time IEEE member and a major contributor, extended the importance of being involved in the community and of engineering through organizations such as IEEE. She stressed the give-and-take cycle of being involved in an organization—you give to it what you can to improve the organization and you receive the benefits of the society and also personal/professional development.

Dining at the Faculty Club provided us with the opportune atmosphere to have relaxed conservation and to innocently prod about job opportunities and different types of jobs that may be interesting. Every student was able to speak with several of the industry guests that were present. Among our special guests were Dean Charles, Dr. Zaky, and professors from the ECE Department.

This event began as an idea to raise funds for our IEEE Student Branch so that we could support other professional development activities that we have planned for the spring (some examples are Toastmasters Night, industry tours, and design competition). We came away with a small profit and a great deal of personal development for all those involved in the planning. And further, the opportunity and enjoyment of the evening for our students and special guests makes the event well worth the effort.

As Chair of the Career Growth Dinner SPAC, I am very pleased that we were able to have so many students and industry guests to participate in our event. I will urge the new council to arrange another Career Growth Dinner next year. Please let me know what you thought of the event. If you would like to be involved in the IEEE or the Career Growth Dinner SPAC please do drop by our office and let me know. I will be glad to answer any questions. I can also be reached by email at *habinh@ecf.toronto.edu*.

EngSoc Reports

VP-X Says: "I Want To Believe"

by Karen Virk ELEC 9T9 VP External

Once again it has been a very busy month. First and foremost, the External Affaire took place on Tuesday, November 25 and it was a huge success. Over a hundred students attended and many students learned about some of the external organizations that exist for them. There were many prizes given out it was a wondrously joyous occasion. If were not able to make it and would like to know more about these organizations, you can always contact me directly.

We also had a visitor from ESSCO (Engineering Societies Student Councils of Ontario) on Tuesday. Mike Hermann, the VP Communication from ESSCO came to talk about ESSCO at the Full Council Meeting. It was wonderful having him here and it was great visibility for our resident Ontario organization.

On the External Front, the delegates for CCES (Congress of Canadian Engineering Students) have been selected after an exhaustive set of interviews. There were many incredible applications and it was indeed very hard to make a decision. The delegates selected were Sally Atalla, Marc Bouchard, Tim Christie, Colin Knowles and Dwayne Shirley and myself as head delegate.

A mini-workshop was held during the Full Council Meeting to determine what the students want from CCES and many good concerns were raised. If there is anything you want to find out from other schools, please let me know directly by emailing me at *vpexternal@skule.ca*.

Another reason to keep your eyes and ears open is that the ESSCO Olympics are coming up. Applications should be available soon.

Anyways, I would like to wish everyone good luck on their exams and I hope you have a great vacation.

Sally Talks (People Listen)

by Sally Atalla MECH 9T7+P Prez

Hey there, gang! Bet you're all excited about starting exams!! Oh, joy! Don't worry. I'm sure that all of your hard work will pay off.

Well, once again another Cannon issue deadline has arrived, and my article submission is (of course) très late. So, here's my brief report of the month:

Many of my days this month (as in previous months) were spent in meetings with various people within the Faculty and with my colleagues (and pals) in EngSoc, as well as covering miscellaneous duties in the EngSoc Office.

Generally, the Vice Présidents are busy with their own items, most of the clubs have had dinner-dances, the publications have been working harder than ever, and the committees have been plugging away at their events. Specific committees that I've been working with include the Fourth Year Committee and the Women's Issues Committee, regarding Gradball details and the White Ribbon Campaign, respectively.

Now you might say "So what?" It's soooo easy to caught up in your studies — believe me, I understand. But there's more to Skule™ than just school. Before you know it, your time here will be over, and you don't want to miss out on everything. Please remember that the people in EngSoc work really hard for you and try to make your time here more valuable, memorable, educational, and just plain fun! So, when you return in the New Year, keep your eyes and ears open. Find out what's going on around you and get involved!!

Undergraduate Communication Skills:

A Needs Assessment Questionnaire for First-Year Students

by Dr. Jane Freeman, Language Across The Curriculum program

During the first few weeks of the fall term, 642 of approximately 800 first-year engineering students were surveyed with various questions relating to communication skills. The first thirty-six questions were answered on computer cards and results to selected questions appear here as percentages. If any question was left blank, then the percentage responses to that question do not add up to 100%.

In addition to the numeric data, the handwritten sheet at the end of the survey asked students the following two questions: "What was the language of instruction at your high school?" and "What specific communication skill do you most hope to receive training in while at UofT?" Respondents were also given the chance to fill out a section entitled "other comments". There was insufficient space to include all the comments here, but they are posted on the first-year bulletin board, on the door of the Writing Centre (GB147) and on the bulletin board in the EngSoc office.

There are four types of questions on the survey: questions of fact, of experience or familiar with certain formats, of confidence with specific communication skills, and of opinion. Some of these questions become meaningful only when responses are compared with those from other groups. If most first-year students indicate that they've never heard of an abstract, for example, and most fourth-year students indicate that they write several abstracts a year at UofT, then the comparison of these two sets of answers will help us identify a specific task with which first-year students might need help. In second term, we will be surveying fourth-year students and interviewing students who are returning from their Professional Experience Year. The results of those surveys will be available in February.

Over half of the students surveyed indicated that they would like to have help with their oral skills. Students wanting to improve speaking skills should be aware of two sets of workshops currently offered in the Faculty of Engineering. "Confident Conversation" is a weekly meeting designed to help students "to think on their feet". Each week, a controversial issue is chosen for debate, and students are given the chance "to argue politely". Assistance is provided with English grammar and pronunciation, but the main focus of these sessions is to give students the chance to formulate their ideas clearly and quickly. "Confident Conversation" is currently being offered primarily for graduate engineering students, but interested undergrads are also welcome. "Confident Conversation" meets in SF3201 every Wednesday from 1:00 to 2:00. If this time-slot is bad, drop off a note suggesting a better time, at GB147. A second workshop will be offered if there is sufficient interest.

A set of workshops on Oral Presentation Skills begins in January. These workshops provide four hours of presentation instruction and practice (one hour each week for four weeks). Students are taught the basic characteristics of effective presentations, and each students is given the chance to make two presentations. Enrolment is strictly limited, so interested students should sign up in the EngSoc office to secure a spot.

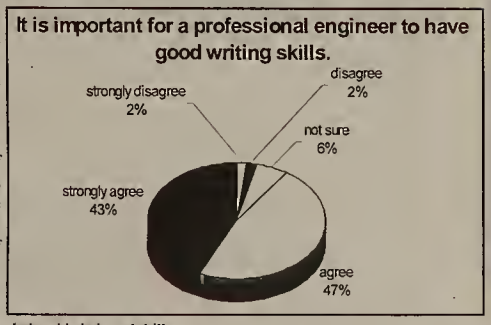
Finally, all engineering students should note that help with written and oral assignments is available at the Writing Centre. The Writing Centre, in GB147, is open from 12 noon until 4 p.m.on every weekday. Phone 416-978-5735 to make an appointment.

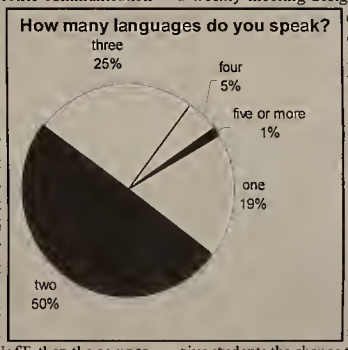
The Writing Centre also has a web page at http://www.ecf.toronto.edu/~writing/.

What Is Your Mother Tongue?

English	42.0%
Cantonese	21.6%
Mandarin	6.6%
Polish	3.4%
Korean	2.3%
Arabic	2.1%
Hindi	1.8%
Urdu	1.7%
Vietnamese	1.7%
Serbian	1.5%
Punjabi	1.2%
Italian	0.9%
French	0.7%
Serbian	0.6%
Croatian	0.6%
Japanese	0.4%
German	0.3%
Greek	0.3%
Other	10.4%

Dr. Freeman apologizes for failing to include Persian and Hebrew in the list. These languages were unintentionally omitted, and the survey is weakened by their absence.


It is important for a professional engineer to have good writing skills.
strongly disagree 2%
disagree 2%
not sure 6%
strongly agree 43%
agree 47%



IV

Teresa finds the edge of insanity and trips over it

by Teresa Huang GEO 97B

A girlfriend of mine from high school came to visit me on the other day. This visit was much anticipated due to the rare opportunity for me to do some serious female bonding and participate in sophisticated and well thought-out activities such as discussing our future roles in society, and how not to let our biological clocks compromise our ambitions. Seriously, we sat around in class, I tried to find a cute guy to point out to her, and we giggled profusely. Ah, activities that I have not done since Microsoft produced a bug-free product! Her visit brought back fond memories of high school when some girls had super powers.

Now, come to think of it, it is indeed fallacious that anyone would have the audacity to call us the weaker sex, when a lot of girls have the power to defy the laws of the universe! Take the law of conservation of matter, for example, how else would you explain the phenomenon of girls declaring that they've gained 10 pounds upon consuming about 300 grams of food? Or our mastery over the fourth dimension.. when 5 minutes of freshening up somehow manages to seem like 2 hours for you poor inferior souls (read: men) idling in the car or living room "waiting" for us? Oh yes, and how some girls just have this incredible power to warp the space-time continuum, when they may somehow accidentally bump into certain guys again and again, in the same straight hallway, within 5 minutes, and while going in opposite directions! Hey, if this is not power, I don't know what is. Unfortunately, not all girls are gifted with such strengths, and interestly, most of the less-endowed end up in engineering.

Perhaps this is some sort of poetic justice, now we don't have to have the ability to warp anything to bump into certain guys in the hallway. Well, except maybe our minds if we want to actually enjoy it. And the alleged amount of time that we spend on grooming is no longer 24 times the amount we claim. I mean, zero times any number is still zero. And .. ugh.. let us not go into the conservation of matter theory. So what kind of justice is this?? It is especially traumatizing upon realizing that the more powerful ones may eventually form a band and make a movie out of their lives, and name themselves after food additives. And be admired by everyone on this planet.

I wonder if the MS Interactive Barney thing is bug-free.

Engineering, Reigning Champs of Div I Rugby!

It's official. Engineering has once again demolished the competition in **Division I Rugby**, to win one of the oldest trophies in intramural history. At 104 years old, the **Mulock Cup** is once again in the hands of the Faculty of Applied Science and Engineering.

The season ended in a spectacular thrashing of our long-time rivals, **LAW**. Out-massed and out-aged, the Skule ruggers managed to crash through the liars (pronounced "lawyers") to earn an **18-7** victory.

Man of the match goes to ***Bucci*** for his spectacular support and precision foot, not to mention the **13** points he scored!

Congrats go out to the rest of the team, apologies go out to the Arbor Room staff and the Mice.

Season tally:
Engineering **228**; Everyone else: 31.

Looking forward to a threepeat next year. Way to go guys, HAVE ANOTHER DONUT!

Gord Bennett

Ind 97B+PEY

University of Toronto
Faculty of Applied Science and Engineering
Examination Location and Seating List

COURSE	TOTAL	ROOM	COL	SEAT	NAME RANGE
"December 5, 9:30 a.m."					
CIV375F	83	HA410	GOLD	44	"ABARQUEZ,J.W. - LO,A.K."
CIV375F		HA403	GOLD	39	"LOPEZ,J.P. - YDUNG,C."
CIV575F	56	GB305		56	"AL-MAQDASY,F.G. - YUNG,J.C.M."
ECE445F	51	SF4102	GOLD	23	"ABTAHI,R. - LEUNG,S.Y.C."
ECE445F		SF4103	GOLD	28	"LEUNG,V.W.Y. - YU,L.H."
MAT186F	356	SF3201		99	"ABEDINI,A. - GULATI,K."
MAT186F		SF3202		79	"HA,H. - LI,J.X."
MAT186F		SF1013		119	"LI,M.G. - SZE,B."
MAT186F		WB242		59	"SZETD,J. - ZUCCARD,M.A."
MAT196F	277	HA401	BLUE	17	"ABDELSAYED,A. - BARCD,B.T."
MAT196F		HA410	BLUE	43	"BARILLARI,J.A. - CDULTER,K.R."
MAT196F		SF4102	BLUE	28	"CROCKER,D.E. - HAZARIKA,U.K."
MAT196F		SF4103	BLUE	33	"HEALEY,C. - LAI,K.K.C."
MAT196F		MC215		118	"LAI,Y.K. - TDNG,T.C."
MAT196F		HA403	BLUE	38	"TONG,Y. - ZWAIGEN,L.P."
MIE372F	27	GB304		27	"ATAMER,A. - YANG,T."
"December 5, 2:00 p.m."					
APM288F	134	HA401	GOLD	18	"ABD-EL-BARR,M. - CHEUNG,S.P."
APM288F		GB405	GOLD	33	"CHEUNG,Y.M.C. - JAMJEKIAN,G."
APM288F		HA410	GDLD	44	"JEN,W.M. - PARK,M."
APM288F		HA403	GOLD	39	"PEMBERTON,D.S. - ZANETTI,B.S."
CHE150F	182	HA410	BLUE	37	"AHMED,S.I. - EDERY,D.A."
CHE150F		MC215		112	"ENY,E.J. - THANGAVELAUTHAM,J."
CHE150F		HA403	BLUE	33	"TDNG,E. - ZHANG,F.Y."
CHE492F	4	GB405	BLUE	4	"JOHNSON,A.M. - PATTEN,L."
ECE443F	52	WB342		52	"AARABI,P. - ZHU,S.Y."
ECE533F	7	SF4102	GDLD	7	"ANGERAS,D. - LEGARE,B."
GEO450F	6	SF4103	GOLD	6	"CHEREVATY,M.R. - VANNICOLA,M."
MAT280F	61	SF4102	BLUE	28	"ANDREWS,D.R. - LO,Y.P.Y."
MAT280F		SF4103	BLUE	33	"MAHMOOD,H. - YOUSUF,M.A."
MAT290F	258	GB304		39	"ABAD,A.V. - CDULTES,A.J."
MAT290F		GB305		55	"CUEVA,V.K. - JAGARIC,I."
MAT290F		SF3201		92	"JHAVER,R. - PETRDVIC,M."
MAT290F		SF3202		72	"PETROVIC,M. - ZHDU,X."
MIE404F	99	SF1013		99	"AL-AZAWI,S. - ZHANG,Q."
MIE566F	47	WB242		47	"ALVAREZ,V. - YEUNG,D.P.W."
"December 8, 9:30 a.m."					
APM291F	50	HA401	BLUE	15	"ARBOLEDA,A. - GRZYBDWSKI,B.D."
APM291F		HA403	BLUE	35	"HADI,Q.N. - YOUSUF,M.A."
CIV101F	663	GB304		46	"ABDELSAYED,A. - BDCZKOWSKI,P."
CIV101F		GB305		61	"BOUDREAU,L.A. - CHO,H.K.J."
CIV101F		SF4102	BLUE	28	"CHO,K. - DE JESUS,T.M."
CIV101F		SF4103	BLUE	34	"DE SANTIS,J. - GAUR,J."
CIV101F		SF3201		99	"GEEGANAGE,S.H. - KO,C.K.S."
CIV101F		SF1013		119	"KDFMAN,L. - MCMATH,S.G."
CIV101F		MC215		119	"MEGHRAZI,N. - SEEPERSAD,D."
CIV101F		HA403	GOLD	39	"SEGALL,I. - SWEETNAM,M.L."
CIV101F		WB242		59	"SYED,N. - WILLIAMS,D.H."
CIV101F		WB342		59	"WDN,H.J. - ZWAIGEN,L.P."
CIV530F	16	HA410	BLUE	16	"ABREU,H.S.G. - WEN,Y.D."
ECE360F	64	SF3202		64	"ABTAHI,R. - YUE,S.S.Y."
ECE424F	36	HA410	GDLD	36	"ASLAM,M.A. - ZHU,S.Y."
MMS150F	6	HA401	GDLD	6	"ALI,K.A. - RODWAY,G."
MMS450F	14	SF4102	GOLD	14	"BATELAAN,M. - SUN,I."
"December 8, 2:00 p.m."					
COURSE	TOTAL	ROOM	COL	SEAT	NAME RANGE
AER402F	11	GB405	GDLD	11	"BERI,R. - YDUNG,C.K."
CHE372F	8	HA401	GDLD	8	"AU,T.A. - YIM,K.F.E."
CIV362F	79	HA410	GDLD	42	"ABARQUEZ,J.W. - LING,C.H.S."
CIV362F		HA403	GDLD	37	"LO,A.K. - YOUNG,C."
CSC180F	119	SF1013		119	"AIMDNE,C. - ZHANG,F.Y."
CSC181F	67	GB304		26	"AHMED,S.I. - KARN,R.B."
CSC181F		GB305		41	"KHABAS,D. - YAGHINI,N."
ECE212F	259	SF4103	GDLD	31	"ABAD,A.V. - CHEREVATY,J.R."
ECE212F		SF3201		96	"CHEUNG,D.N. - LEE,T."
ECE212F		SF3202		76	"LENNER,M. - SEALE,D.A."
ECE212F		WB242		56	"SEEVARATNAM,K. - ZHOU,X."
ECE373F	99	HA401	BLUE	18	"AKBER,M.S. - CHRZANOWSKI,M."
ECE373F		HA410	BLUE	43	"CHU,S.S. - LEUNG,Y.K.S."
ECE373F		HA403	BLUE	38	"LEWIS,N.J. - ZAPARENKDS,E."
MIE240F	161	MC215		110	"ADENWALLA,S. - PARAB,M.S."
MIE240F		WB342		51	"PARK,H. - ZANATTA,A.M."
MIE519F	5	SF4103	BLUE	5	"HDDGSDN,S.M. - SINTON,D.A."
MMS315F	29	GB405	BLUE	29	"ADDETIA,R. - ZODIAN,A."

CDURSE	TOTAL	RODM	COL	SEAT	NAME RANGE
"December 9, 9:30 a.m."					
CHE221F	88	MC215		88	"ABRIGO,M.H. - YU,F."
CHE331F	89	HA401	BLUE	14	"ALPUERTO,A.M. - CHEN,C.H."
CHE331F		HA410	BLUE	40	"CHOI,A. - MAHARAJ,S."
CHE331F		HA403	BLUE	35	"MATTHEWS,L.L. - ZINKDV,L."
CHE463F	23	HA403	GOLD	23	"AUNG,E. - ZAPANTA,B."
CIV261F	92	SF1013		92	"AQUINO,S.M. - YU,M.S."
CIV465F	4	GB405	GDLD	4	"JOHNSON,A.M. - PATTEN,L."
CIV540F	15	GB405	GOLD	15	"ABREU,H.S.G. - VOONG,J."
ECE253F	143	SF3201		81	"ABD-EL-BARR,M. - LOBO,L.J."
ECE253F		SF3202		62	"LOK,L. - ZANETTI,B.S."
ECE334F	128	GB304		42	"AGGARWAL,A. - GU,H.R."
ECE334F		GB305		57	"GUERRERO,R. - PRIMEAU,J.R."
ECE334F		GB405	BLUE	29	"RAJPUT,S. - ZHANG,C."
ECE370F	57	WB242		57	"ALOYSIUS,B.D. - ZHANG,Q."
MIE337F	42	HA410	GOLD	42	"ARGIRIS,G. - WU,M.M.K."
"December 9, 2:00 p.m."					
ECE410F	129	SF3201		74	"ADAMEK,P. - MANGAN,M.J."
ECE410F		SF3202		55	"MANOHARARAJAH,V. - ZHU,S.Y."
ECE557F	27	SF4102	BLUE	27	"AARABI,P. - WEE,E."
MMS402F	20	SF4102	GOLD	20	"ABDULRAHMAN,N. - YANG,K."
"December 10, 9:30 a.m."					
CIV321F	94	SF1013		94	"ABARQUEZ,J.W. - YOUNG,C."
ECE310F	201	SF4103	BLUE	30	"AGGARWAL,A. - CHEN,Y.Y."
ECE310F		SF3201		95	"CHENG,V.W. - MDRRIS,J.R."
ECE310F		SF3202		76	"MOTA,D.M. - ZHANG,C."
MIE322F	102	MC215		102	"AKBER,M.S. - ZAPARENKOS,E."
MMS202F	36	WB242		36	"ARBOLEDA,A. - YOUSUF,M.A."
"December 10, 2:00 p.m."					
AER373F	26	SF4103	BLUE	26	"ATAMER,A. - YANG,T."
CHE390F	8	HA401	BLUE	8	"AU,T.A. - YIM,K.F.E."
CHE553F	19	HA403	GOLD	19	"ABDUATALLAH,G. - XIAD,Z."
CIV420F	50	WB342		50	"AL-MAQDASY,F.G. - YUNG,J.C.M."
ECE241F	256	GB304		39	"ABAD,A.V. - CHU,K."
ECE241F		GB305		54	"COULTES,A.J. - JACK,D.R."
ECE241F		SF3201		91	"JAGARIC,I. - PERRY,D.A."
ECE241F		SF3202		72	"PETROVIC,M. - ZHOU,X."
ECE446F	23	SF4102	BLUE	23	"BABIARZ,J.M. - ZABUDSKY,A.S."
MAT389F	59	WB242		59	"ABTAHI,R. - YUE,S.S.Y."
MIE270F	114	MC215		114	"AQUINO,S.M. - YU,M.S."
MIE353F	41	HA410	BLUE	41	"ARGIRIS,G. - WU,M.M.K."
MIE536F	2	See Prof			"DAWSON,M. - HODGSON,S.M."
MIE562F	21	HA403	BLUE	21	"BHUJWALLA,Z.G. - YEUNG,D.P.W."
MMS270F	168	SF4102	GOLD	24	"ADENWALLA,S. - CHDNG,A.L."
MMS270F		SF4103	GOLD	29	"CHONG,C.I. - HO,S.A."
MMS270F		SF1013		115	"HO,W.Y.P. - ZANGANAS,G."
MMS313F	27	HA410	GOLD	27	"ADDETIA,R. - ZODIAN,A."
"December 11, 9:30 a.m."					
APS105F	150	SF3201		85	"ABUL-ALA,M. - MANGAT,H.S."
APS105F		SF3202		65	"MARTIN,J.A. - ZWAIGEN,L.P."
APS106F	68	GB304		26	"AMIZOLA,C.O. - IBIDUN,S.C."
APS106F		GB305		42	"ISERHIENRHIEN,O. - ZUCCARD,M.A."
APS107F	100	HA401	GDLD	18	"ABEDINI,A. - CHEN,E."
APS107F		HA410	GOLD	43	"CHEN,J.H. - MOHITE,S."
APS107F		HA403	GOLD	39	"MUKBIL,A. - YOU,J.K.A."
CHE112F	106	WB242		53	"ALBANESE,P.F. - LEE,D.W."
CHE112F		WB342		53	"LEE,H. - YU,T.C."
MMS101F	225	SF1013		112	"ABDELSAYED,A. - LIAN,K.L."
MMS101F		MC215		113	"LIN,Y.H.(. - ZHANG,J.H."
PHY280F	133	HA401	BLUE	18	"ABD-EL-BARR,M. - CHEUNG,Y.M.C."
PHY280F		GB405	BLUE	33	"CHIK,D.K.H. - JEN,W.M."
PHY280F		HA410	BLUE	43	"JOHNS,S.M. - PARK,M."
PHY280F		HA403	BLUE	39	"PEMBERTON,D.S. - ZANETTI,B.S."
"December 11, 2:00 p.m."					
AER506F	11	GB405	GOLD	11	"BERI,R. - YDUNG,C.K."
CHE311F	90	GB304		37	"ALPUERTO,A.M. - JAHSHAN,H.S."
CHE311F		GB305		53	"KHADEMHOSSEINI,A. - ZINKDV,L."
ECE416F	153	SF3201		86	"AARABI,P. - LEUNG,Y.T.J."
ECE416F		SF3202		67	"LI,H.Y.Q. - ZHU,S.Y."
MMS401F	34	GB405	BLUE	34	"ABDULRAHMAN,N. - YANG,K."
PHY180F	186	SF1013		93	"AHMED,S.I. - LO,C.W.M."
PHY180F		MC215		93	"LUPAS,J.H. - ZHANG,F.Y."

Need a copy of the exam schedule?
Get one from ECF: /usr/copy/ExamTimetable

University of Toronto
Faculty of Applied Science and Engineering
Examination Location and Seating List

COURSE	TOTAL	ROOM	COL	SEAT	NAME RANGE
"December 12, 9:30 a.m."					
CIV210F	117	SF1013		117	"AQUINO,S.M. - YU,M.S."
CIV312F	68	GB304		26	"ABARQUEZ,J.W. - KAN,V.Y."
CIV312F		GB305		42	"KHALIL,M. - YOUNG,C."
CIV314F	14	SF4102	BLUE	14	"GHAYOOR,A. - WU,C.H.C."
ECE350F	15	SF4103	GOLD	15	"BABU,G. - YUE,S.S.Y."
GEO310F	22	SF4103	BLUE	22	"ANDREWS,D.R. - VORVIS,Z."
MIE230F	166	SF3201		93	"ADENWALLA,S. - LOY,B.M."
MIE230F		SF3202		73	"LUN,K. - ZANATTA,A.M."
MMS207F	35	WB242		35	"BATROVIC,D. - YOUSUF,M.A."
"December 12, 9:00 a.m."					
AER301F	20	SF4103	BLUE	20	"ATAMER,A. - YANG,T."
CHE211F	89	SF1013		89	"ABRIGO,M.H. - YU,F."
CHE393	8	GB405	GOLD	8	"AU,T.A. - YIM,K.F.E"
CHE412F	24	GB304		24	"BAHRA,J.S. - YUSUFALI,R."
CHE490F	17	GB405	BLUE	17	"CHOO,A.M. - YAO,E.S."
CIV416F	48	GB305		48	"AL-MAQDASY,F.G. - YUNG,J.C.M."
CIV549F	18	SF4102	BLUE	18	"CHEUNG,W.S.W. - ZHANG,Z."
CSC326F	154	SF3201		87	"ADKAR,S. - LEVENTIS,P.M."
CSC326F		SF3202		67	"LEW,D.J. - ZHANG,C."
ECE320F	75	HA410	BLUE	40	"AGGARWAL,R. - MISTRY,C."
ECE320F		HA403	BLUE	35	"MOHD. ROSLI,Z. - WU,H.K.P."
ENG284F	39	HA410	GOLD	39	"ANDRADE,R. - YING,X."
MIE312F	111	MC215		111	"AKBER,M.S. - ZAPARENKOS,E."
MIE343F	48	WB342		48	"ARGIRIS,G. - WU,M.M.K."
MIE446F	56	WB242		56	"AL-AZAWI,S. - YEUNG,B.H.B."
MIE448F	19	SF4103	GOLD	19	"ALI,M. - WRIGHT,J."
MMS314F	30	HA403	GOLD	30	"ADDETIA,R. - ZODIAN,A."
"December 15, 9:30 a.m."					
APS103F	289	SF3201		96	"ABEDINI,A. - HUANG,A.S.Y."
APS103F		SF3202		76	"HUNG,O.J. - NEILL,A.M."
APS103F		SF1013		117	"NEJAT,G. - ZWAIGEN,L.P."
APS302F	47	WB242		47	"ABAD,A.V. - YEHIA,W."
ECE355F	64	SF4102	GOLD	29	"ABTAHI,R. - LUI,B."
ECE355F		SF4103	GOLD	35	"LUTHRA,S. - YUE,S.S.Y."
ECE435F	39	HA410	GOLD	39	"ADAMEK,P. - WONG,V.C.C."
EDV360F	21	HA403	GOLD	21	"CATAUDELLA,E.A. - WU,C.H.C."
ENG182F	255	GB304		47	"ABDELSAYED,A. - CHUNG LIN CHEUNG,D.R."
ENG182F		GB305		62	"CLOUTIER,M.M. - KIM,H.J."
ENG182F		HA410	BLUE	44	"KIM,S. - MACH,L."
ENG182F		SF4102	BLUE	29	"MACKAY,L.M. - NITSOPOULOS,M.A."
ENG182F		SF4103	BLUE	34	"OATHWAITE,E. - SINHA,P."
ENG182F		HA403	BLUE	39	"SMITH,K.I. - ZUCCARO,M.A."
HPS280F	111	MC215		111	"ALLARD,P.N. - ZHOU,X."
JTC413F	19	HA401	BLUE	19	"ABDULRAHMAN,N. - YANG,K."
"December 15, 2:00 p.m."					
AER305F	20	SF4102	GOLD	20	"ATAMER,A. - YANG,T."
AER410F	11	HA401	BLUE	11	"BERI,R. - YOUNG,C.K."
APS185F	49	WB242		49	"ABU-SNAINEH,B.A. - YUSUF,M."
CHE332F	90	SF3201		90	"ALPUERTO,A.M. - ZINKOV,L."
CHE466F	33	HA403	GOLD	33	"AHMED,I. - ZAGNOEV,R."
CIV102F	187	SF3202		73	"AHMED,S.I. - KING,R."
CIV102F		SF1013		114	"KNAPP,C.K. - ZHANG,F.Y."
CIV519F	35	HA410	GOLD	35	"BODDY,A.M. - YUNG,J.C.M."
CIV550F	8	HA401	GOLD	8	"CHO,T. - ZHANG,Z."
ECE330F	76	HA410	BLUE	40	"AGGARWAL,R. - MOHD. ROSLI,Z."
ECE330F		HA403	BLUE	36	"MORRIS,J.R. - WU,H.K.P."
ECE413F	28	SF4103	GOLD	28	"ANG,T.H.V. - YU,J."
EDV220F	158	GB304		43	"ABRIGO,M.H. - GRABEL,D.J."
EDV220F		GB305		58	"GRINSPUN,Y. - MUHL,E."
EDV220F		SF4102	BLUE	26	"MUKBIL,A. - SIU,M.K."
EDV220F		SF4103	BLUE	31	"SMALL,A. - YU,M.S."
MIE301F	107	MC215		107	"AKBER,M.S. - ZAPARENKOS,E."
MIE362F	42	WB342		42	"ARGIRIS,G. - WU,M.M.K."
"December 16, 9:30 a.m."					
CSC470F	72	SF1013		72	"ALI,M. - ZACCAK,I.P."
MIE265F	175	SF3201		97	"ADENWALLA,S. - LOY,B.M."
MIE265F		SF3202		78	"LUN,K. - ZANATTA,A.M."
"December 16, 2:00 p.m."					
BME595F	17	GB304		17	"CHOO,A.M. - YAO,E.S."
ECE341F	204	SF3201		92	"AGGARWAL,A. - KORDASIEWICZ,R."
ECE341F		SF1013		112	"LAM,A.O.C. - ZHANG,C."

COURSE	TOTAL	ROOM	COL	SEAT	NAME RANGE
"December 17, 9:30 a.m."					
CHE200F	85	HA410	GOLD	45	"ABRIGO,M.H. - LUTZEN,J.W."
CHE200F		HA403	GOLD	40	"MA,J.H.S. - YU,F."
CIV331F	84	WB242		42	"ABARQUEZ,J.W. - LIN,G."
CIV331F		WB342		42	"LING,C.H.S. - YOUNG,C."
ECE250F	135	GB304		44	"ABD-EL-BARR,M. - GREWAL,R."
ECE250F		GB305		59	"HO,T. - RAUCH,E."
ECE250F		GB405	BLUE	32	"READYHOUGH,C.E. - ZANETTI,B.S."
ECE426F	35	SF4103	BLUE	35	"AU,K.K.K. - ZHU,S.Y."
JVM209F	92	SF3201		92	"AQUINO,S.M. - YU,M.S."
MAT291F	261	GB405	GOLD	30	"ABAD,A.V. - CHENG,K.H.P."
MAT291F		SF1013		115	"CHEREVATY,J.R. - LO,W."
MAT291F		MC215		116	"LOR,L.W. - ZHOU,X."
MIE414F	91	HA401	BLUE	15	"AL-AZAWI,S. - CHANG,L.M."
MIE414F		HA410	BLUE	40	"CHEANG,A. - LUK,B.M."
MIE414F		HA403	BLUE	36	"LUONG,V. - ZHANG,Q."
MIE467F	28	SF4102	BLUE	28	"ALVAREZ,V. - YEUNG,D.P.W."
MMS420F	26	SF4103	GOLD	26	"ASSUNCAO,J.R. - YANG,K."
"December 17, 2:00 p.m."					
CHE321F	89	MC215		89	"ALPUERTO,A.M. - ZINKOV,L."
CIV514F	52	GB305		52	"AL-MAQDASY,F.G. - YUEN,T.Y."
ECE359F	21	SF4103	GOLD	21	"BABU,G. - YUE,S.S.Y."
MIE231F	167	SF3201		93	"ADENWALLA,S. - LOSOS,D.M."
MIE231F		SF3202		74	"LOY,B.M. - ZANATTA,A.M."
MIE358F	47	SF4102	BLUE	21	"ARGIRIS,G. - LAM,M.E."
MIE358F		SF4103	BLUE	26	"LAU,E.W.L.G. - WU,M.M.K."
MIE371F	126	SF4102	GOLD	18	"ADDETIA,R. - CHEN,C.C."
MIE371F		SF1013		108	"CHENG,I. - ZODIAN,A."
"December 18, 9:30 a.m."					
APM384F	56	WB342		56	"ABTAHI,R. - YU,L.H."
CSC442F	104	HA401	GOLD	19	"ALI,M. - CHENG,W.W."
CSC442F		HA410	GOLD	45	"CHEUNG,C.P.J. - MIAO,W.W."
CSC442F		HA403	GOLD	40	"MOLAEI-FOROUHAR,P. - ZACCAK,I.P."
ECE534F	21	SF4102	BLUE	21	"ADAMEK,P. - YING,Y."
MAT188F	337	GB304		44	"ABEDINI,A. - CHAN,S.K."
MAT188F		GB305		60	"CHAO,B. - HANTZIAGELIS,S."
MAT188F		HA401	BLUE	17	"HAYWARD,D. - JIN,M."
MAT188F		HA410	BLUE	42	"JIN,M. - LEE,K.L.D."
MAT188F		MC215		117	"LEE,L. - SYMES,B.G."
MAT188F		WB242		57	"SZE,B. - ZUCCARO,M.A."
MAT198F	303	SF4102	GOLD	23	"ABDELSAYED,A. - BOURGEAULT,M.A."
MAT198F		SF3201		93	"BOWLER,C.E. - JOSHI,A.K."
MAT198F		SF3202		73	"KARAMALI,H. - NITSOPOULOS,M.A."
MAT198F		SF1013		114	"OH,P.T. - ZWAIGEN,L.P."
"December 18, 2:00 p.m."					
APS232F	58	HA410	BLUE	31	"ACRI,J. - KRAUSS,T.M."
APS232F		HA403	BLUE	27	"KUMAR,A.D. - YEUNG,D.P.W."
CHE203F	78	SF3202		78	"ABRIGO,M.H. - YU,F."
CHE349F	69	HA410	GOLD	37	"AHMED,I. - NASERI,M."
CHE349F		HA403	GOLD	32	"NAVOA,R. - ZAPANTA,B."
CIV255F	92	MC215		92	"AQUINO,S.M. - YU,M.S."
CIV524F	15	HA401	BLUE	15	"ABREU,H.S.G. - VANNICOLA,M."
ECE352F	23	SF4102	GOLD	23	"ADKAR,S. - YEN,E.H."
ECE371F	200	SF3201		90	"AGGARWAL,A. - KOMMATAS,D."
ECE371F		SF1013		110	"KORDASIEWICZ,R. - ZHANG,C."
ECE471F	21	SF4103	GOLD	21	"BATELAAN,M. - YAO,E.S."
ECE512F	41	SF4102	BLUE	18	"AARABI,P. - LAI,W.P."
ECE512F		SF4103	BLUE	23	"LAU,K.Y.A. - YU,J."
FRE186F	13	GB405	GOLD	13	"ABDEL KHALEK,A.M. - PONTES,R."
MAT194F	183	GB304		42	"AHMED,S.I. - FUNG,R."
MAT194F		GB305		57	"GACA,W. - MIRZA,J.B."
MAT194F		GB405	BLUE	29	"MIURA,K. - RIZZI,T."
MAT194F		WB342		55	"ROBSON,A. - ZHANG,F.Y."
MMS316F	41	WB242		41	"ADDETIA,R. - ZODIAN,A."

MMS Club Smoker

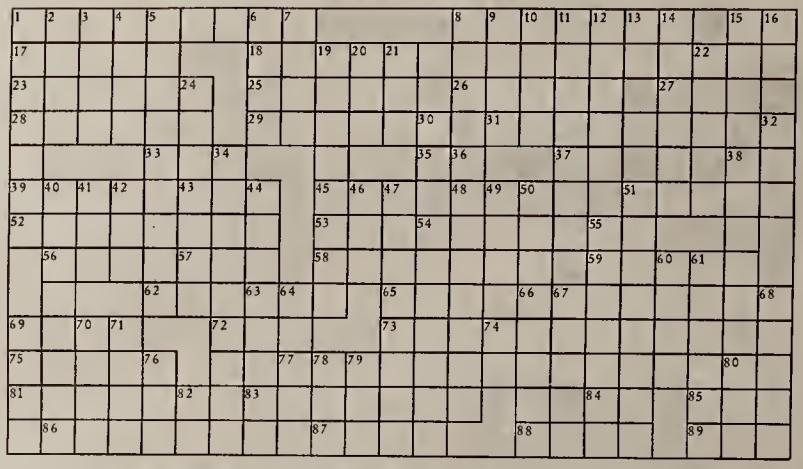
December 3, ~ 5 p.m. in the MMS Common Room, WB143

If you're an MMS, come help us celebrate the last day of classes!

Entertainment

The Cannon's Decidedly Non-Festive Crossword

by Yuval Grinspun CIV 0TO



For all you crossword-lovers out there in Skule™, we've created something for you to do over the Christmas holidays. **There will be a prize for the first person to get all the correct answers!** When you've finished the crossword, seal it in an envelope along with your name, year/discipline, and phone number, and stick it in the Cannon mailbox in Engineering Society. The prize will be: a book of crosswords, and movie passes to a film of your choice (you can go see it when you're not doing your crosswords, heh heh)

Supplementary Explanations: **Rev.:** Reverse answers will be similar in style to the clues typically found in crosswords. Likewise, the clue will be more like an answer for a typical crossword clue. **B&A:** Before and answer like Wheel of Fortune. The answer is actually two distinct words or phrases with overlapping sections. The clue leads to both parts of the solution, but it is your job to figure out where the clue is split.
e.g. soda a la fission → "pop candu"

Across

1. Paper with a bang : 2 wds
8. Mid-east dish
15. Reporter's group (abbrev.)
17. A great storyteller
18. 3.14 or 3.142 : 2 wds
23. Card giver
25. When "there's a hole in the bucket" and the "bucket" holds your food
26. Copiers
27. Un-even
28. Prune maker
29. Angle finding function
31. Just like Marie-Antoinette
33. Great way to get information
35. Not an element describing those who left (abbrev.)
37. Not an element named after Dorothy's Saviour (abbrev.)
38. Magnet lover (abbrev.)
39. Carson's heir
43. Program that's pretty automatic.
45. Where some dance
48. Vowel pot-pourri
51. Troy's nickname (first made famous by Homer)
52. Stretch
53. Nay-sayers : 2 wds
56. Sheep's girlfriend
57. To moo
58. Language variant
59. Literary artists
62. Not an element numbered after The Great One (abbrev.)
63. First lady
65. Nay nay
66. 5X, 10X, **50X** : 3 wds
69. A crock
72. Sight-seer's tool
73. My helper
74. Tree product
77. Important part of muscle creation
81. Napple for French Pie?
83. Tornado wannabe
84. Microsoft program that isn't so new. (abbrev.)
85. Bard, wannabe
86. Chretien's hero
87. Often heard when someone is told they're annoying (abbrev.)
88. Use eyes
89. Half a line

Down

1. Frog wannabe
2. Only weak spot of "Super" man from Troy (see 51 across)
3. Jacob's hairy twin
4. First name of the Phantom
5. Man wannabe
6. Musical work
7. Frasier's brother
8. Hunted by canines
9. Rose and Foley
10. Mafia money
11. Hopelessly romantic
12. Sends a copy
13. Eliot's outer-space buddy
14. First name of Simpson's lawyer
15. In between any duo
16. Letter attachment (abbrev.)
19. An award
20. Source of royal insomnia
21. Representing the most trusted profession (abbrev's): B&A
22. Word often found in a poem's title
24. Ones who won't recieve presents from Santa
30. Assignment marker (abbrev.)
32. US agent nickname
34. Juice leecher
36. Something a cowboy wouldn't do during a pool game : 3 wds
38. see 64 down
40. One who has a trunk but no engine
41. A good time to finish this crossword
42. Any follower
44. Point-guard on librarian's team
46. Before Baba
47. Behind Barbie's "welcome" mat : 2 wds
49. Infantry bus (abbrev.)
50. Cold and flu : 2 wds, rev.
51. Marriage vows: 3 wds, rev.
54. Big apple bull-fight : 3 wds, rev.
55. Miserable because she was the odd one out
60. Better Than ___
61. Hot Wheel
64. ____ fat; clue for 38 down
67. Foot protrusion
68. Description of a boy after playing soccer in the rain.
69. Often healthy
70. One shot off a birdie : 2 wds
71. Food list
72. Not an element named after the coalition of European countries (abbrev.)
73. Not an element describing the ice age (abbrev.)
75. Degree counter (abbrev.)
77. Here in France
78. Deli favourite (abbrev.)
79. George's musical brother
82. Not an element named after a dead singer (abbrev.)
83. Not an element originally intended to top the bunny (abbrev.)

Season's Greetings

☆Join us for a bigger & better NY eve bash
☆Free comedy night every Tuesday
☆ Celebrate Christmas with 2 bands on Dec. 20